

CLAIMS

1. Method for coordinating telecommunications services (2) provided to a plurality of users, by means
5 of telecommunications terminals (3, 4, 5) connected to various telecommunications networks (1), which method includes steps in which a service mediation server (10) coordinates the processing operations performed by various telecommunications services on behalf of each
10 of the users, characterised in that it also includes steps in which:

- the telecommunications services (2) connect to the service mediation server (10) and specify events of which they must be notified by the service mediation server, and/or events that they are capable of transmitting to the service mediation server,

- the telecommunications terminals (3, 4, 5) of the users connect to the service mediation server, transmit, to the service mediation server, user
20 profiles specifying availability modes, which are stored in a database (18), activate profiles and previously specified availability modes, and access the connected services,

- the service mediation server determines a state of connectability of each user on the basis of the existence of at least one user terminal connected to the server, and the user's active availability mode and
5 profile,
- the service mediation server transmits to each connected terminal the state of connectability of users specified in a list of contacts forming part of the active profile of the terminal user,
10 - the service mediation server transmits, for each event received from a service, an event notification to the connected services having specified that they must be notified of the event.
- 2. Method according to claim 1, characterised in
15 that each availability mode specified by a user includes:
 - an availability state capable of having the values: available, not available, in call transfer to a specified call number, or unknown if the user does not want his/her availability state to be accessible,
20
 - an optional terminal identifier to which an incoming call intended for the user is transferred,
 - an event notification mode, and
 - a list of contacts to which the availability
25 state applies.
- 3. Method according to claim 2, characterised in that each availability mode specified by a user also includes availability rules specifying periods in which the availability mode is active.
30
- 4. Method according to one of claims 1 to 3, characterised in that the connectability state

determined by the service mediation server can be in one of the following states:

- connectable if the active availability mode of the user is in the available state and if at least one user terminal is connected to the service mediation server,
 - not connectable if the user is not available or if no user terminal is connected to the service mediation server,
- 10 - access to the connectability state subject to authorisation if the user wants his/her connectability state to be provided to other users only with his/her prior authorisation,
- 15 - in transfer if the user specified that incoming calls intended for him/her must be transferred to a call number specified in the active availability mode,
- 20 - unknown if the requested user is not registered with the service mediation server, or if he/she does not want his/her connectability state to be accessible.
- 25 5. Method according to one of claims 1 to 4, characterised in that the transmission of event notifications by the service mediation server is carried out upon the request of each connected service.
- 30 6. Method according to one of claims 1 to 4, characterised in that the transmission of an event notification by the service mediation server is performed upon receipt of the event if the service is connected; otherwise, the event is stored in a log and is notified to the service when the latter connects to the service mediation server.

7. Server for mediation of telecommunications services provided to a plurality of users, by means of telecommunications terminals connected to various telecommunications networks, including a service coordination module (11) designed to coordinate the processing operations performed by the telecommunications services on behalf of each of the users, characterised in that it also includes:
- at least one database (18) containing all of the data concerning the users, which is necessary for the service mediation server (10) and the services,
 - an availability server (12) designed to manage and determine at any time the availability of the users, according to active availability modes and rules, specified by the users and stored in the database,
 - a service management module (16) designed to receive, from each service, an entry specifying events of which the services are to be notified and/or events transmitted by the service, and
 - an event notification module (13) designed to receive and notify the appearance of events to telecommunications services that have requested it,
 - the service coordination module (11) including means for determining a connectability state of each user for each of his/her profiles according to the existence of at least one user terminal connected to the server, and the user's active availability mode and profile, and means for transmitting, to each connected terminal, the connectability state of users specified in a list of contacts forming part of an active profile of the terminal user.

8. Service mediation server according to claim 7,
characterised in that it also includes an
authentication / identification module (15) responsible
for identifying and authenticating the users when they
5 access the service mediation server (10) or certain
services.

9. Service mediation server according to claim 7
or 8, characterised in that it also includes an
interface module (14) providing access to the service
10 mediation server (10) by means of a telecommunications
network (1), which module is designed to receive
processing requests, from services or users, and to
retransmit them to a component of the server
responsible for performing the requested processing
15 operation, and transmitting, in response to these
requests, the responses provided by the components of
the server.

10. Service mediation server according to claim 9,
characterised in that the interface module (14)
20 comprises a plurality of duplicated components so as to
ensure fault tolerance.

11. Service mediation server according to one of
claims 7 to 10, characterised in that it also includes
an access monitor (7) including:

25 - means for connecting a user terminal (3, 4, 5)
to the mediation server (10) and disconnecting it from
the server,

- means for connecting a service (2) to the
mediation server (10) and disconnecting it from the
30 server,

- means for managing, in real time, the various services activated for the user,
 - means for selecting a profile to be activated and an availability mode in the profile to be activated,
- 5 - means for selecting events of which the user wants to be notified of the appearance, and
- means for selecting a terminal to receive an incoming call.
12. Computer program designed to be implemented on
10 a server for mediating telecommunications services provided to a plurality of users, by means of telecommunications terminals (3, 4, 5) connected to various telecommunications networks (1), characterised in that it includes instructions for implementing the
15 steps of the method according to one of claims 1 to 6, executed by the service mediation server.
13. Telecommunications server (2) providing telecommunications services to a plurality of users, by means of telecommunications terminals (3, 4, 5)
20 connected to various telecommunications networks (1), characterised in that it includes:
- means for connecting to the service mediation server (10) according to one of claims 7 to 11,
 - means for specifying and transmitting, to the
25 service mediation server, events of which it must be notified by the service mediation server, and/or events that it is capable of transmitting to the service mediation server, and
 - means for receiving, from the service mediation server, event notifications coming from other

telecommunications services and having been specified as being required to be notified to it.

14. Computer program designed to be implemented on a telecommunications server (2) providing 5 telecommunications services to a plurality of users, by means of telecommunications terminals (3, 4, 5) connected to various telecommunications networks (1), characterised in that it includes instructions for implementing the steps of the method according to one 10 of claims 1 to 6, executed by a telecommunications service.

15. Information system including a plurality of telecommunications terminals (3, 4, 5) of users connected to various telecommunications networks (1), a 15 plurality of servers (2) providing telecommunications services on behalf of the users, and a service mediation server (10) designed to coordinate the processing operations performed by the telecommunications services (2), characterised in that 20 the service mediation server (10) is consistent with one of claims 7 to 11.